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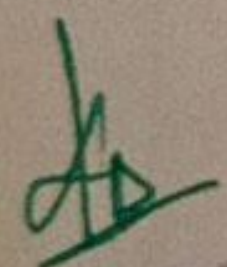
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QC-ABSTRACT

Name of Work:-Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore-Dasarahalli

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	PCC 1:3:6	4.93Cum	1	1	Cement Sand, Aggregates
2	Steel	4.16Tonne	1	1	-
3	M20	4.95Cum	1	1	Concrete Cube Compressive strength
4	M15	1.28Cum	1	1	Concrete Cube Compressive strength
5	M25	16.33Cum	3	3	Concrete Cube Compressive strength
6	CC Block-8"	125.32 Sqm	1	1	Compressive strength
7	CC Block-4"	27.11 Sqm	1	1	Compressive strength
8	Ceramic Tiles	2.14 Sqm	1	1	-
9	Cpvc Pipe-20mm	30 m	1	1	-
10	Cpvc Pipe-25mm	32 m	1	1	-
11	Pvc Pipe-114mm	10.5 m	1	1	-
12	Brick	-	1	1	-


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BBMP, Bangalore - 92

Cubes

0-5 m³

1set

6-15 m³

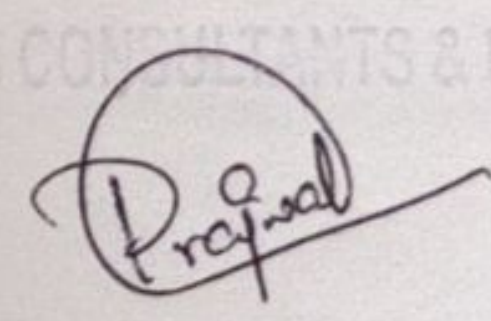
2set

16-30 m³

3set

31-50 m³

4 set


Authorised Signatory

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date: 29.04.2021

TEST REPORT ON CEMENT

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. K S Chowdareddy Contractor, Bangalore

Name of Work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location : Dasarahalli

Sample : :Cement (Birla Super 53 grade OPC)

Sample Supplied by: :AGENCY

Date of Manufacture: :March 2021

Date of Testing : 27.4.2021 to 29.04.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.50%	-

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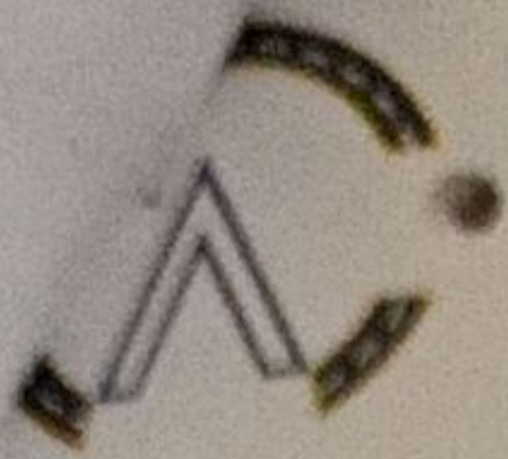
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Job No.

CACE/BBMP/KSC/6/2021-2022

Date 29.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Project Division, BBMP, Bangalore.
Agency : Sri. K S Chowdareddy Contractor, Bangalore
Name of Work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location : Dasarahalli
Date of Testing : 29.04.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	67	6.70	6.70	93.3	90-100
2.36	119	11.90	18.60	81.4	75-100
1.18	181	18.10	36.70	63.3	55-90
600 Micron	249	24.90	61.60	38.4	35-59
300 Micron	181	18.10	79.70	20.3	8-30
150 Micron	165	16.50	96.20	3.8	0-10

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date 29.04.2021

TEST REPORT ON FINE AGGREGATES (SAND) IS 1542-1992

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency : Sri. K S Chowdareddy Contractor, Bangalore
Name of Work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location : Dasarahalli
Date of Testing : 29.04.2021
Material : Plastering Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	25	2.50	2.50	97.5	95-100
2.36	28	2.80	5.30	94.7	95-100
1.18	51	5.10	10.40	89.6	90-100
600 Micron	75	7.50	17.90	82.1	80-100
300 Micron	253	25.30	43.20	56.8	20-65
150 Micron	521	52.10	95.30	4.7	0-15

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date 29.04.2021

TEST REPORT ON FINE AGGREGATES (SAND) IS 2116-1980

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency : Sri. K S Chowdareddy Contractor, Bangalore
Name of Work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location : Dasarahalli
Date of Testing : 29.04.2021
Material : Masonry Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	28	2.80	2.80	97.2	90-100
1.18	36	3.60	6.40	93.6	70-100
600 Micron	82	8.20	14.60	85.4	40-100
300 Micron	256	25.60	40.20	59.8	5-70
150 Micron	465	46.50	86.70	13.3	0-15

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Date 29.04.2021

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Project Division, BBMP, Bangalore.
Agency : Sri. K S Chowdareddy Contractor, Bangalore
Name of Work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location : Dasarahalli
Date of Testing : 29.04.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	154	1.03	1.03	98.97	95-100
20	8525	56.83	57.86	42.14	30-70
10	3169	21.13	78.99	21.01	10-35
4.75	2898	19.32	98.31	1.69	0-5

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TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Project Division, BBMP, Bangalore.
Agency : Sri. K S Chowdareddy Contractor, Bangalore
Name of Work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location : Dasarahalli
Date of Testing : 29.04.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	197	3.9	3.9	96.1	95-100
10	2865	57.3	61.2	38.8	25-55
4.75	1785	35.7	96.9	3.1	0-10

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date: 29.04.2021

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. K S Chowdareddy Contractor, Bangalore

Name of Work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location : Dasarahalli

Sample Identification : 8mm,10mm,12mm,16mm,20mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 29.04.2021

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm ²)	Tensile strength (N/mm ²)	Elongation, percent on gauge length
1	Fe 500	8	0.398	512	602	15
2	Fe 500	10	0.618	526	589	20
3	Fe 500	12	0.889	508	612	18
4	Fe 500	16	1.583	529	621	22.5
5	Fe 500	20	2.490	547	638	19

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date 30.04.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP,
Agency : Sri. K S Chowdareddy Contractor, Bangalore
Name of the Work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location : Dasarahalli
Date of Testing : 30.04.2021
Size of Blocks : 400mm x 100mm x 200mm
Cross Sectional Area : 40000 mm²
Technical Reference : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Block Density in Kg/M ³	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	16.7	198.5	4.96	2087.50	Minimum required Compressive Strength of Individual Units 4.00N/mm ²
2	Block 2	16.9	175.6	4.39	2112.50	
3	Block 3	16.4	184.5	4.61	2050.00	
4	Block 4	15.8	168.7	4.22	1975.00	

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date 30.04.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP,
Agency : Sri. K S Chowdareddy Contractor, Bangalore
Name of the Work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K
Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location : Dasarahalli
Date of Testing : 30.04.2021
Size of Blocks : 400mm x 200mm x 200mm
Cross Sectional Area : 80000 mm²
Technical Reference : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Block Density in Kg/M ³	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.5	415.1	5.19	2031.25	Minimum required Compressive Strength of Individual Units 5.00N/mm ²
2	Block 2	31.9	421.8	5.27	1993.75	
3	Block 3	32.8	419.9	5.25	2050.00	
4	Block 4	33.4	424.7	5.31	2087.50	

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Job No.: CACE/BBMP/KSC/6/2021-2022

07.05.2021

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. K S Chowdareddy Contractor, Bangalore

Name of Work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP,

Location : Dasarahalli

Reference to BIS co. IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks- Specification
IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1: Determination of Compressive Strength, (Cl 4.2.3)
Part 2: Determination of Water Absorption, (Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)
Date of test: 03.05.2021 to 07.05.2021

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm ²)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.8	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.9	
3	5.3	
4	5.4	
5	5.5	
Average of 5 bricks	5.6	

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	12.5	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	11.6	
3	12.8	
4	14.6	
5	13.2	
Average of 5 bricks	12.9	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate' upto class 12.5 and 'slight' for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4615	4520 to 4680 mm
2	Width	2160	2160 to 2240 mm
3	Height	1410	1360 to 1440 mm

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date: 19.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. K S Chowdareddy Contractor, Bangalore

Name of the work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location : Dasarahalli

Sample ID : Cement Concrete for Column SF

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.05.2021	19.05.2021	8.202	412.5	18.33
2	12.05.2021	19.05.2021	8.169	419.6	18.65
3	12.05.2021	19.05.2021	8.039	428.1	19.03

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date: 10.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. K S Chowdareddy Contractor, Bangalore

Name of the work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location : Dasarahalli

Sample ID : Cement Concrete for Roof Beam SF

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

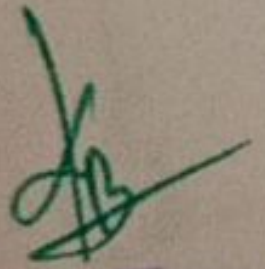
Grade of Concrete : M₂₅

Compressive Strength as on : 7th day

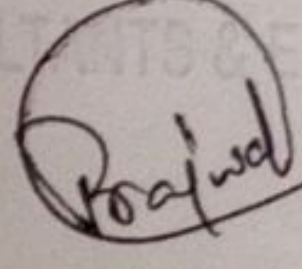
Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.06.2021	10.06.2021	8.212	418.6	18.60
2	03.06.2021	10.06.2021	8.033	421.7	18.74
3	03.06.2021	10.06.2021	8.165	417.1	18.54

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

For CIVIL AIM CONSULTANTS & ENGINEERS



Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.

Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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(Building Geo-Tech & Highway Materials Testing Laboratory)

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Job No: CACE/BBMP/KSC/6/2021-2022

Date: 10.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. K S Chowdareddy Contractor, Bangalore

Name of the work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location : Dasarahalli

Sample ID : Cement Concrete for Roof Slab SF

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.06.2021	10.06.2021	8.154	417.5	18.56
2	03.06.2021	10.06.2021	8.196	426.5	18.96
3	03.06.2021	10.06.2021	8.214	438.4	19.48

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date: 09.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. K S Chowdareddy Contractor, Bangalore

Name of the work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location : Dasarahalli

Sample ID : Cement Concrete for Column SF

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

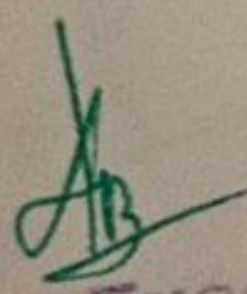
Grade of Concrete : M₂₅

Compressive Strength as on : 28th day

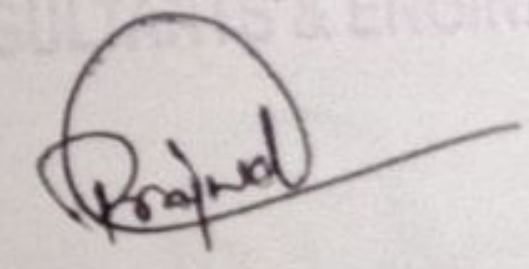
Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.05.2021	09.06.2021	8.217	589.6	26.20
2	12.05.2021	09.06.2021	8.063	612.4	27.22
3	12.05.2021	09.06.2021	8.002	617.1	27.43

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date: 01.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. K S Chowdareddy Contractor, Bangalore

Name of the work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location : Dasarahalli

Sample ID : Cement Concrete for Roof Beam SF

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.06.2021	01.07.2021	8.002	618.4	27.48
2	03.06.2021	01.07.2021	8.155	632.5	28.11
3	03.06.2021	01.07.2021	8.036	618.5	27.49

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Date: 01.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. K S Chowdareddy Contractor, Bangalore

Name of the work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location : Dasarahalli

Sample ID : Cement Concrete for Roof Slab SF

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.06.2021	01.07.2021	8.199	613.5	27.27
2	03.06.2021	01.07.2021	8.123	624.8	27.77
3	03.06.2021	01.07.2021	8.247	628.1	27.92

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Job No: CACE/BBMP/KSC/6/2021-2022

Date: 27.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP,
Agency : Sri. K S Chowdareddy Contractor, Bangalore
Name of the work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K
Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location : Dasarahalli
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.05.2021	27.05.2021	8.036	365.5	16.24
2	20.05.2021	27.05.2021	8.096	348.8	15.50
3	20.05.2021	27.05.2021	8.028	352.2	15.65

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Job No: CACE/BBMP/KSC/6/2021-2022

Date: 17.05.2021

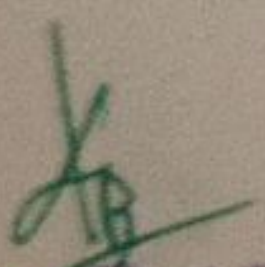
TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP,
Agency : Sri. K S Chowdareddy Contractor, Bangalore
Name of the work : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K
Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location : Dasarahalli
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

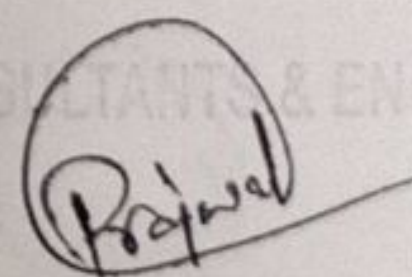
SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.05.2021	17.05.2021	8.002	516.6	22.96
2	20.05.2021	17.05.2021	8.165	520.7	23.14
3	20.05.2021	17.05.2021	8.036	528.8	23.50

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